

FOKINA, L.N.; SAMOKHVALOV, G.I.

Physiologically active polypeptides. Med. prom. 15 no.11:3-12  
N-61. (MIRA 15:6)

(PEPTIDES)

SAMOKHVALOV, G.I.

BOGOSLOVSKIY, N.A.; SAMOKHVALOV, G.I.; PREOBRAZHENSKIY, N.A.

Complex lipids. Synthesis of  $\alpha$ -( $\alpha'$ -oleoyl- $\beta$ -stearoyl) cephalin. Zhur. ob. khim. 31 no.4:1143-1147 Ap '61. (MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Cephalins)

SAMOKHVALOV, G.I.; SHAKHOVA, M.K.; BUDAGYANTS, M.I.; VEYNBERG, A. Ya.;  
LUK'YANOVA, L.V.; PREOBRAZHENSKIY, N.A.

Synthetic studies of flavonoids. Part 2: Synthesis of 3-nitro-  
flavanone. Zhur. ob. khim. 31 no.4:1147-1150 Ap '61.  
(MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminny institut.  
(Flavanone)

ANOSOV, V.I.; SAVOSTIN, A.M.; PINES, V.G.; MILYUTKINA, V.P.; MIROPOL'SKAYA, M.A.;  
FEDOTOVA, N.I.; SAMOKHVALOV, G.I.

Preparation of  $\gamma$ -,  $\gamma$ -dimethylallyl alcohol and isopropenylethyl  
alcohol from the product resulting from the condensation of iso-  
butylene. Zhur. ob. khim. 31 no.4:1154-1157 Ap '61.

(MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Butenol) (Pentenol)

SHVETS, V.I.; BOGOSLOVSKIY, N.A.; POLYACHENKO, V.M.; VOLKOVA, L.V.;  
SAMOKHVALOV, G.I.; PREOBRAZHENSKIY, N.A.

Synthesis of phospholipides containing residues of higher aliphatic  
polyene acids. Dokl. AN SSSR 140 no.4:851-854 0 '61. (MIRA 14:9)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.  
Lomonosova i Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy  
institut. Predstavleno akademikom A.N.Nesmeyanovym.  
(Phosphatides) (Olefins)

BOGOSLOVSKIY, N.A.; SAMOKHVALOV, G.I.; PREOBRAZHENSKIY, N.A.

Complex lipides. Synthesis of  $\alpha$ -( $\alpha'$ -linoleoyl- $\beta$ -stearoyl)-  
cephalin. Zhur. ob. khim. 32 no.1:135-137 Ja '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Cephalin)

SHAKHOVA, M.K.; SAMOKHVALOV, G.I.; PREOBRAZHENSKIY, N.A.

Synthetic studies in the flavonoids field. Part 3: Total  
synthesis of ~~quercetin-3~~ rutinoside. Zhur.ob.khim. 32  
no.2:390-396 F '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Rutin)

POLYACHENKO, V.M.; SAMOKHVALOV, G.I.; PREOBRAZHENSKIY, N.A.

Investigation in the field of complex lipides. Synthesis of  
( $\alpha$ -oleoyl- $\beta$ -stearoyl) phosphatidylethanolamine. Zhur.ob.khim.  
32 no.2:396-399 F '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Cephalins)



BOGOSLOVSKIY, N.A.; SAMOKHVALOV, G.I.; PREOBRAZHENSKIY, N.A.

Complex lipides. Synthesis of  $\alpha$ -( $\alpha$ -linoleoyl- $\beta$ stearoyl)  
phosphatidylcholine (lecithin). Zhur.ob.khim. 32 no.7:2210-2214  
Jl '62. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Lecithin)

MIROPOL'SKAYA, M.A.; FEDOTCVA, N.I.; VEYNBERG, A.Ya.; YANOTOVSKIY, M.TS.;  
SAMOKHVALOV, G.I.

Synthetic investigations in the field of polyene compounds.  
Part 18: Selective hydrogenation of 6-methyl-3,5-heptadien-2-one  
and 6-methyl-3,5-heptadien-2-ol by Pd/CaCo<sub>3</sub>. Zhur.ob.khim. 32  
no.7:2214-2217 JI '62. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Heptadienone) (Heptadienol) (Hydrogenation)

VAKULOVA, L.A.; FOKINA, L.N.; FRADKINA, T.S.; LUK'YANOVA, L.V.;  
SAMOKHVALOV, G.I.

Pyrophosphoric ester of 3-methyl-2-buten-1-ol.  
Dokl. AN SSSR 147 no.1:103-105 N '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy  
institut. Predstavleno akademikom M.I. Kabachnikom.  
(Pyrophosphoric acid)  
(Butenol)

SHAKHOVA, M.K.; BUDAGYANTS, M.I.; SAMOKHVALOV, G.I.; PREOBRAZHENSKIY, N.A.

Synthetic investigations in the field of flavonoids. Part 4:  
Synthesis of 3-hydroxyflavone of flavonol. Zhur.ob.khim. 32  
no.9:2832-2834 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Flavone)

OBOL'NIKOVA, Ye.A.; SAMOKHVALOV, G.I.

Synthesis of some  $\alpha$ -substituted valeraldehydes.

Zhur.ob.khim. 32 no.11:3556-3558 N '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Valeraldehyde)

SAMOKHVALOV, G.I.; BUDAGYANTS, M.I.; SHAKHOVA, M.K.; SHOLINA, S.I.;  
KRUGLYAKOVA, K.Ye.; NIKOLAYEV, R.P.; ROMANOVA, A.F.

7-Alkyl derivatives of quercetin and their antioxidizing  
effectiveness. Izv. AN SSSR. Ser.khim. no.9:1617-1621 S '63.  
(MIRA 16:9)

1. Institut khimicheskoy fiziki AN SSSR i Vsesoyuznyy nauchno-  
issledovatel'skiy vitaminnyy institut.  
(Quercetin) (Antioxidants)

FREYDLIN, L.Kh.; SHARF, V.Z.; SAMOKHVALOV, G.I.; MIROPOL'SKAYA, M.A.;  
PRIVALOVA, I.M.; YANOTOVSKIY, M.TS.

Catalytic dehydration of 3-methyl-1,3-butanediol. *Neftekhimiya*  
3 no.1:104-107 Ja-F '63. (MIRA 16:2)

1. Institut organicheskoy khimii AN SSSR imeni Zelinskogo  
i Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Butanediol)  
(Dehydration (Chemistry))

SAMOKHVALOV, G.I., doktor khim.nauk

"Chemistry of natural compounds; carbohydrates, nucleotides, steroids, proteins" by N.K.Kochetkov, I.V.Torgov, M.M.Botvinik. Reviewed by G.I.Samokhvalov. Vest. AN SSSR 33 no.3:141-143 Mr '63. (MIRA 16:3)

(Carbohydrates) (Nucleotides) (Steroids) (Proteins)  
(Kochetkov, N.K.) (Torgov, I.V.)  
(Botvinik, M.M.)



OBOL'NIKOVA, Ye.A.; SAMOKHVALOV, G.I.

Synthesis of polyene compounds. Part 20: Chemical behavior of  
acetals of  $\gamma$ -bromo- and  $\gamma$ -hydroxyvaleraldehydes. Zhur.ob.khim.  
33 no.6:1860-1864 Je '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.  
(Valeraldehyde)

VEYNBERG, A.Ya.; VAKULOVA, L.A.; SAMOKHVALOV, G.I.

Complete synthesis of D-erythro-1- $\beta$ -lactosyl-N-palmitoylsphingosine,  
a component of cytolipin H. Zhur. VKHO 9 no. 3:348-350 '64.  
(MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

POLYACHENKO, V.M.; SAMOKHVALOV, G.I.

Semimicrodetermination of the iodine number of synthetic  
( $\alpha$ -oleyl- $\beta$ -stearoyl)-phosphatidylethanolamine. Zhur. anal.  
khim. 19 no. 1:136-137 '64. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut,  
Moskva.

POLYACHENKO, V.M.; SAMOKHVALOV, G.I.

Complex lipids. Preparation of phosphorylated derivatives of N-phthaloylserine. Zhur.ob.khim. 34 no.2:554-556 F '64. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

OBOL'NIKOVA, Ye.A.; YANOTOVSKIY, M.TS.; SAMOKHVALOV, G.I.

Synthetic investigations in the field of polyene compounds.  
Part 21: Synthesis of geranylacetone us' the Wittig  
reaction. Zhur. ob. khim. 34 no. 5:1499-1502 My '64.  
(MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

FREYDLIN, L.Kh.; BORUNOVA, N.V.; SAMOKHVALOV, G.I.; MIROPOL'SKAYA, M.A.;  
YANOTOVSKIY, M.TS.; GVINTER, E.I.; FEDOTOVA, N.I.

Directed changes in the selectivity of catalysts in the process  
of hydrogenation of the dienone group. Report No.1: Hydrogenation  
of 6-methyl-3,5-heptadien-2-one on nickel catalysts. Izv. AN SSSR.  
Ser. khim. no.6:996-1003 Je '64.

(MIRA 17:11)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR i  
Vsesoyuznyy nauchno-issledovatel'skiy i vitaminnyy institut.

VAKULOVA, L.A.; KUZNETSOVA, V.P.; KOLOT, F.B.; BAB'YEVA, I.P.; SAMOKHVALOV, G.I.

Rapid method of quantitative determination of  $\beta$ -carotene in micro-organisms. Mikrobiologiya 33 no.6:1061-1064 N-D '64. (MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

OBOL'NIKOVA, e.A.; DAVYDOVA, L.F.; KABOSHINA, L.N.; VALASHIN, I.Ye.;  
YANOTOVSKIY, M. TS.; SAMOKHVALOV, G.I.

Synthetic studies of polyene compounds. Part 23: Synthesis of  
4-methyl-4-nonene-1-ol-8-one dihydropenoid keto alcohol according  
to the Wittig reaction. Zhur. obshch. khim. 34 no.12:3975-3979 D '64  
(MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.



VEYNBERG, A. Ya.; VAKULOVA, L.A.; MAYRANOVSKIY, V.G.; SAMOKHVALOV, G.I.

Sphingosine and its natural compounds. Part 1: Conversion of  
threo-sphingosine to its erythro derivatives. Zhur.ob.khim. 34  
no.12:3979-3982 D '64 (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

YANOTOVSKIY, M.TS.; MAYRANOVSKIY, V.G.; SAMOKHVALOV, G.I.

Additional polarographic detection in gas-liquid chromatography.  
Part 2: Application of the method. Zhur. fiz. khim. 38 no.12:  
2995-2999 D '64. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

MAYRANOVSKIY, V.G.; SAMOKHVALOV, G.I.

Polarography of conjugated systems in dimethylformamide. Elektrokhimiia  
1 no.8:996-1000 Ag '65. (MIRA 18:9)

1. Vsesoyuznyy vitaminnyy institut.

KOLOT, F.B.; VAKULOVA, L.A.; GOL'DAT, S.Yu.; SAMOKHVALOV, G.I.

Effect of different light sources on the carotenoid formation by  
*Penicillium sclerotiorum*. Mikrobiologiya 34 no.4:627-630 J1-Ag  
'65. (MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

MAYRANOVSKIY, V.G.; SAMOKHVALOV, G.I.

Polarography of conjugated systems in dimethylformamide. Part 2:  
Retinol and other compounds of vitamin A group. Elektrokhimiya 2  
no.1:62-68 Ja '66. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut,  
Moskva. Submitted January 18, 1965.

L 10367-67 EWP(J)/EWI(m) RM

ACC NR: AP7003115

SOURCE CODE: UR/0079/66/036/007/1345/1346

MAYRANOVSKIY, V. G., FOKINA, L. N., VAKULOVA, L. A., SAMOKHVALOV, O. I.

ORG: none

"Polarographic Activity of Phosphoric Acid Esters"

Moscow, Zhurnal Obshchey Khimii, Vol 36, No 7, 1966, pp 1345-1346

TOPIC TAGS: phosphoric acid, ester, polarographic analysis

Abstract: It was found that certain organic phosphates give distinct polarographic reduction waves in the region of extremely negative potentials, if solutions of quaternary ammonium salts in dimethylformamide are used as the background. Trimethyl, triethyl, tripropyl, triisopropyl, tributyl, triphenyl, tri-o-cresyl, tribenzyl, diphenylbenzyl, and dibenzyl phosphates were studied with a dropping mercury electrode. With the exception of the trialkyl phosphates, which are not detected on the polarogram in an accessible potential region, the triesters of phosphorus acids generally give one reduction wave; in the case of tribenzyl phosphate, a second wave is visible before the discharging of the background. It is proposed that the polarographic activity of the phosphates is due to electrochemical cleavage of the C-O or P-O bond. The triesters of phosphoric acid are arranged in the following series with respect to ease of electrochemical reduction: trialkyl phosphates < triphenyl phosphate < tri-benzyl phosphate. Orig. art. has: 2 formulas and 1 table. [JPRS: 38,970]

SUB CODE: 07 / SUBM DATE: 02Dec65 / ORIG REF: 001 / OTH REF: 001

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UDG: 547.26'118

ACC NR: AP7013144

SOURCE CODE: UR/0079/66/036/011/1905/1909

AUTHOR: Mel'nik, S. Ya.; Miropol'skaya, M. A.; Samokhvalov, G. I.

ORG: All-Union Scientific Research Vitamin Institute (Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut)

TITLE: Investigations in the field of complex lipids. Synthesis of (alpha,beta-dipalmitoyl)phosphatidyl-N-(DL-alanyl)-ethanolamine, N-(DL-alanyl)-cephaline

SOURCE: Zhurnal obshchey khimii, v. 36, no. 11, 1966, 1905-1909

TOPIC TAGS: . lipide, amine derivative, chemical synthesis, organic phosphorus compound

SUB. CODE: 07

ABSTRACT: Two possible ways of synthesizing N-aminoacyl derivatives of phosphatidylethanolamines by the reaction of silver salts with the corresponding iodo-derivatives were studied. (Alpha, beta-dipalmitoyl)-phosphatidyl-N-(DL-alanyl)-ethanolamine, or N-(DL-alanyl)-cephaline was synthesized according to the following scheme. The reaction of N-(phthaloyl-DL-alanyl)-ethanolamine with thionyl chloride under very mild conditions yielded N-(phthaloyl-DL-alanyl)-2-chloroethylamine, which, by the action of sodium iodide in methyl ethyl ketone, was converted to N-(phthaloyl-DL-alanyl)-2-iodoethylamine. Condensation of the latter

Card 1/2

UDC: 547.915 + 547.468

0933 0850

ACC NR: AP7013144

with the silver salt of benzyl-(alpha,beta-dipalmitoyl)-alpha'-glycerylphosphoric acid yielded a phosphotriester, benzyl-(alpha,beta-dipalmitoyl)-alpha'-glyceryl-N-(phthaloyl-DL-alanyl)-aminoethylphosphate. Debenzylation of the latter with lithium bromide in acetone medium yielded the lithium salt of (alpha,beta-dipalmitoyl)-alpha'-glyceryl-N-(phthaloyl-DL-alanyl)-aminoethylphosphoric acid, which was cleaved to N-(DL-alanyl)-cephaline using hydrazine hydrate. The infrared spectrum of the compound synthesized was studied; the reactions were followed by thin-layer chromatography. The method described can be used to produce analogs of N-(DL-alanyl)-cephaline containing unsaturated fatty acids in the glycerine portion of the molecule. Orig. art. has: 1 figure and 1 formula. [JPRS: 40,351]

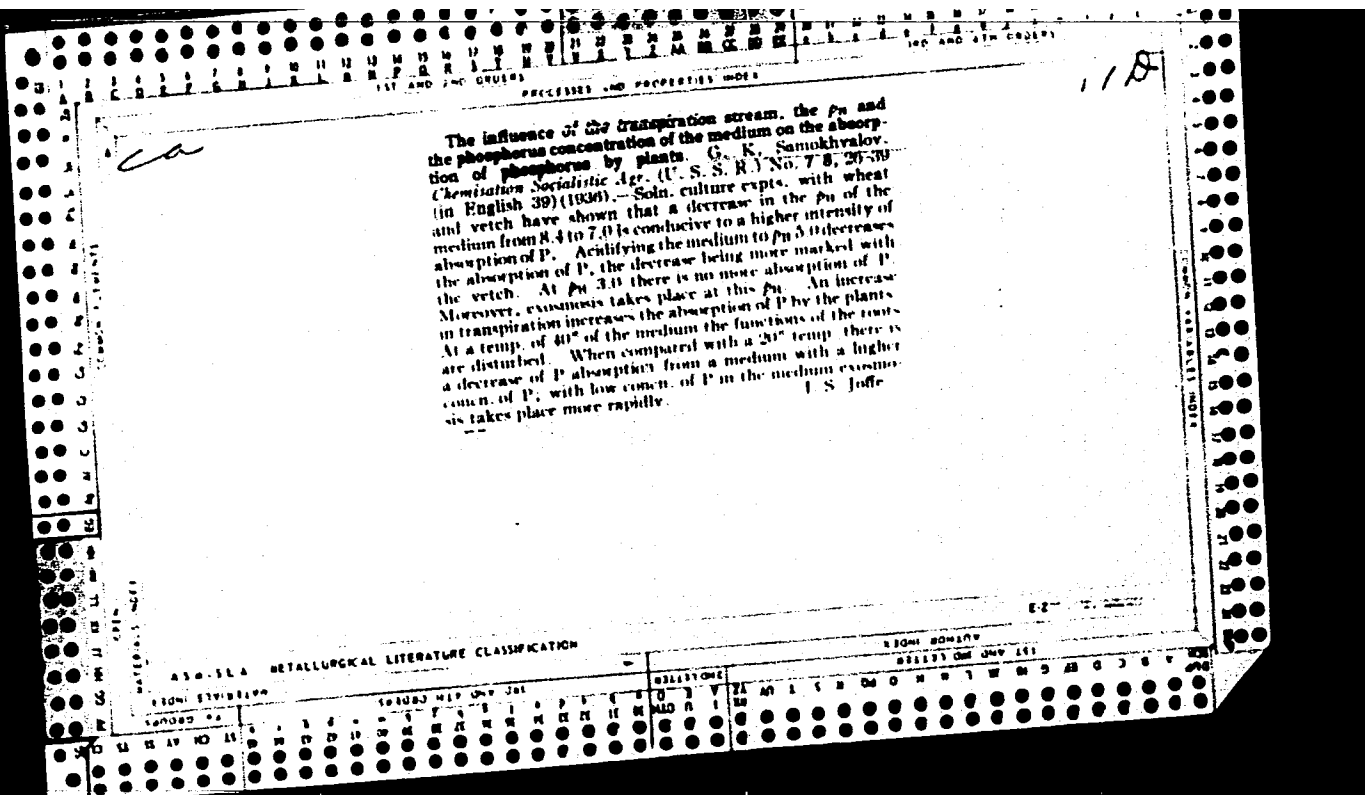
Card 2/2



MAYRANOVSKIY, V.G.; SAMOKHVALOV, G.I.

Polarographic reduction of vitamins A and D. Zhur. VKHO 9 no. 3:  
358-359 '64. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.



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PROCESSING AND PROPERTY INDEX

The influence of temperature of the external solution on the absorption of phosphorus by the root systems of plants. G. K. Samokhvalov. *Bull. acad. sci. U. R. S. S., Classe sci. math. nat., Ser. biol.* 1938, 1217-23 (in English, 1223); cf. C. A. 31, 6284. — Soln.-culture expts. with millet, wheat and vetch have shown that the effect of the temp. of the external soln. (1, 10, 20, 30 and 40°) on the intensity of P absorption is detd. to a large extent by the biol. properties of the resp. plants. Of the plants studied millet is most resistant to high temps. and absorption is lowered but slightly even at 40°; winter wheat, on the contrary, absorbs P actively only at low temps. (1-10°).  
John Livak

ANALYTICAL LITERATURE CLASSIFICATION

ANALYTICAL LITERATURE CLASSIFICATION

1114

PROCESSES AND PROPERTIES INDEX

The ash requirements of plants at different phases of their development. G. K. Samokhvalov. *Bull. Acad. sci. U. R. S. S., Classe sci. math. nat., Ser. biol.* 1938, 1224-38 (in English, 1238).—Expts. with water cultures of spring barley from which one of the elements N, P, K, Ca, Mg, S and Fe was excluded at various phases of development show that these ash elements differ greatly in their effect on the development of the plant and also in the amt. required during the entire vegetative period and at different stages of growth.

John Livak

AS 31 A METALLURGICAL LITERATURE CLASSIFICATION

11E

CA

Importance of sodium in plant life. G. K. Samokh-valov. *Compt. rend. acad. sci. U. R. S. S. 25, 691-4 (1938) (In: English)*. When K is eliminated during the development of barley prior to tillering and is replaced by Na, a marked decrease of productivity and an under-~~development~~ of the reproductive organs occur. When Na is introduced after tillering instead of K which was present until tillering set in, the plants develop better than in the absence of K and Na, and a normal development of re-productive organs is noted. The pos. effect of Na depends on the more favorable ionic condition of the nutrient soln. and on a stimulated utilization of K. J. T. Sullivan

ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION

11E

110

Mineral requirements of plants at various stages of development. G. K. Samokhvalov. *Russ. Acad. Sci. R. S. S., Ser. bot.* 1940; 219-220 (in English, 1940). This is an extension of studies reported previously (cf. C. I. 33, 1939<sup>1</sup>).

B. Guloff

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

1. SAMOKHVALOV, G. K.

2. USSR (600)

4. Growth (Plants)

7. Problem of mineral nutrition of plants during individual development and methods of investigating it. Izv. KirFAN SSSR No. 7, 1947

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

SAMOKHVALOV, G. K.

Novoe ob uglerodnom pitanii rastenii [What's new in the carbon intake of plants].  
Khar'kov, Izd-vo Khar'kovskogo universiteta, 1952. 88 p.

SP: Monthly List of Russian Accessions, Vol. 6, No. 5, August 1953



SAMOKHVALOV, G.K.; PETROVA, A.N.

Anatomical changes in solanaceous plants produced by "absorbing"  
vegetative hybridization. Izv.zap.KHGU 46:97-107 '53. (MIRA 11:11)

1. Kafedra fiziologii rasteniy i mikrobiologii Khar'kovskogo gosudar-  
stvennogo universiteta.

(Grafting) (Nightshade) (Botany--Anatomy)

SAMOKHVALOV, G.K., doktor biologicheskikh nauk; POTAPOV, A.I., professor;  
CHERNYSHENKO, Ya.T., tekhnicheskii redaktor.

[Mineral nourishment as a factor in the individual growth of plants]  
Mineral'noe pitanie kak faktor individual'nogo razvitiia rastenii.  
Khar'kov, Izd-vo Khar'kovskogo gos. univ. im. A.M.Gor'kogo, 1955. 184p.  
(Plants, Effect of Minerals on)

SAMOKHVALOV, G.K., doktor biologicheskikh nauk; SEMENENKO, G.I., dotsent,  
otvetstvennyy redaktor; CHERNYSHENKO, Ya.T., tekhnicheskiiy redaktor

[New studies on the carbon intake of plants] Novoe ob uglerodnom  
pitanií rastenii. Izd. 2-oe, perer. i dop. Khar'kov, Izd-vo Khar'-  
kovskogo gos. univ. im. A.M.Gor'kogo, 1956. 118 p. (MIRA 10:1)  
(Plants--Nutrition) (Carbon)

M

USSR/Cultivated Plants - Grains

Abs Jour : Ref Zhur Biol., No 12, 1958, 53597

Author : Samokhvalov, G.K.

Inst : Kharkov University

Title : On Some Peculiarities in the Development of Buckwheat.

Orig Pub : Uch. zap. Khar'kovsk. un-t, 1956, 72, 61-66

Abstract : Buckwheat was grown in soil culture in the following variants: 1) without fertilizers; 2) with the pre-sowing application of fertilizers in the following amounts: N 1 g, P<sub>2</sub>O<sub>5</sub> 1.5 g, K<sub>2</sub>O 1.5 g to a vessel; 3)  $\frac{1}{2}$  of the rate indicated above plus  $\frac{1}{2}$  of the rate at the beginning of the heaviest blossoming. In the case of buckwheat the weight of the vegetative organs continued to increase, in contrast to the wheat, even after the beginning of fruit bearing. Under the conditions where there was a better

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USSR / Cultivated Plants. General Problems.

Abs Jour: Ref Zhur-Biol., No 6, 1958, 24923

Author : Samokhvalov, G. K.  
Inst : Kharkov University  
Title : The Cultivation of Stubble Crops in the Ukrainian  
SSR

Orig Pub: Uoh. 'zap. Kharkovsk. un-t, 1956, 72, 79-85

Abstract: It has been noted on the basis of experiments made in Central Asia and Khar'kovskaya Oblast' that millet, buckwheat, false flax, sugar and fodder beets, flax, as well as (for forage) mixed sowings of peas and millet, barley and oats, plantings of corn, sudan grass, millet and fodder sorghum may be used for stubble planting. The stubble sowing of wheat did not yield positive results. - G. N. Chernov

Card 1/1

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KSENOFONTOVA, A.I., prof.; BURCHAKOV, A.S., kand. tekhn. nauk; PANOV,  
G.Ye., inzh.; SAMOKHVALOV, G.K., inzh.

[Guide for reducing dust formation by preventive wetting of coal seams through holes in the walls, for workers in dust control in coal mines and planning organizations] Rukovodstvo dlia rabotnikov pyleventiliatsionnoi sluzhby na ugol'nykh shakhtakh i proektnykh organizatsii po predvaritel'nomu uvlazhneniiu ugol'nykh plastov cherez shpury v lavakh s tsel'iu snizhenia pyleobrazovaniia. Moskva, Mosk. gornyi in-t, 1961. 22 p. (MIRA 16:1)  
(Mine dust)

BURCHAKOV, A.S., kand. tekhn. nauk; PANOV, G.Ye., inzh.; SAMOKHVALOV,  
G.K., inzh.; MEDVEDEV, V.P., inzh.

Use of the method of electric hydrodynamic analogies for  
analyzing the flow of water in wetting of a coal bed. Izv. vys.  
ucheb. zav.; gor. zhur. no.5:67-72 '61. (MIRA 16:7)

1. Moskovskiy gornyy institut imeni Stalina. Rekomendovana  
kafedroy ventilyatsii i tekhniki bezopasnosti.  
(Coal mines and mining)  
(Electromechanical analogies)

KSENOFONTOVA, A.I., prof.; BURCHAKOV, A.S., kand.tekhn.nauk;  
SAMOKHVALOV, G.K., gornyy inzh.; PODSHIVALOV, Yu.Ye.,  
gornyy inzh.

Water injection into the seam contributes to reduce the strength  
of coal blocks. Ugol' Ukr. 6 no.1:12-13 Ja '62. (MIRA 15:2)  
(Mining engineering)



KSENOFONTOVA, A.I., prof.; BURCHAKOV, A.S., kand.tekhn.rank; SAMOKHVALOV, G.K.,  
inzh.

Pumping water into a coal stratum for preventing dust formation.  
Bezop.truda v prom. 6 no.7:20-22 JI '62. (MIRA 15:7)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.  
(Mine dusts--Safety measures)

L 39312-65 EWG(j)/EWG(r)/EWT(1)/FS(v)-3/EWG(v)/EWG(a)-2/EWG(c) Pe-5 DD  
ACCESSION NR: AR5006793 S/0299/65/000/001/G006/G006

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs. 1G33

AUTHOR: Samokhvalov, G. K.

TITLE: Light and the plant

CITED SOURCE: Svet i rasteniye. Khar'kovsk. un-t. Khar'kov, 1963,  
176 str.

TOPIC TAGS: plant, plant pigment, light, photosynthesis, metabolism

TRANSLATION: Results of effects of lighting conditions (intensity and quality), light adaptation of plants with different biological properties and characteristics, plants under different ecological conditions, and plants with complimentary coloring on photosynthesis and metabolism are reported by the author after many years of research. Bibliography 145 titles. M. Sh.

SUB CODE: LS

ENCL: 00

Card 1/1 *jo*

SAMOKHVALOV, G.K., inzh.

Selection of methods and technological layouts for wetting a coal massif to control dust. Izv. vys. ucheb. zav.; gor. zhur. 6 no.4:34-38 '63. (MIRA 16:7)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki. Rekomendovana kafedroy rudnichnoy ventilyatsii i tekhniki bezopasnosti.

(Lvov-Volyn' Basin—Mine dusts—Prevention)

SERBINENKO, Georgiy Il'ich; SEROKEVALOV, G.K., prof., otv. red.;  
VAYNBERG, D.A., red.

[Biochemistry of nucleic acids metabolism in higher  
plants] K biokhimii obmena nukleinovyykh kislot u vys-  
shikh rastenii. Khar'kov, Izd-vo Khar'kovskogo univ.,  
1964. 174 p. (MIRA 18:1)

SAMOKHVALOV, G. N.

PHASE I BOOK EXPLOITATION

SOV/2030

8(2)

Vasil'yev, Dmitriy Vasil'yevich, Boris Afanas'yevich Mitrofanov, Grigoriy L'vovich Rabkin, Georgiy Nikanorovich Samokhvalov, Aleksandr Aleksandrovich Semenov, Aleksandr Vasil'yevich Fateyev, and Nikolay Ivankovich Chicherin

Raschet sledyashchego privoda (Servodrive Design) Leningrad, Sudpromgiz, 1958.  
370 p. 8,000 copies printed. Errata slip inserted..

Resp. Ed.: S. Ya. Berezin; Ed.: Ye. N. Shaurak; Tech. Ed.: P. S. Frankin.

PURPOSE: This book is intended for scientists, engineers, and students of vuzes.

COVERAGE: This book discusses the problems of designing electromechanical servodrives and gives examples of design from the point of view of the overall system and of the individual basic elements. The design of servodrive amplifiers, the selection and design of error-sensing devices, and the experimental determination of the transfer functions of the discrete links of a servodrive are given considerable attention in the book. Materials on the design of electromechanical servodrives are systematized and the design of servodrives with electronic and magnetic amplifiers and of servodrives with rotating amplifiers is discussed. These designs reflect the practical experiences of the authors in the development of servosystems. The authors

Card 1/5

GUSEV, V.V.; YEREMEYEV, Yu.A.; SAMOKHVALOV, G.N.; KHOLODILIN, A.M.

Mathematical model of a ship. Trudy LKI no.31:11-14 '60.  
(MIRA 15:2)

1. Kafedra teorii korable Leningradskogo korablestroitel'nogo  
instituta.

(Mathematical models) (Stability of ships)

L 23557-65

ACCESSION NR AML045085

BOOK EXPLOITATION

S/

Vasil'yev, D. V.; Mitrofanov, B. A.; Rabkin, G. L.; Samokhvalov, G. N.;  
Semenkovich, A. A.; Fateyev, A. V.; Chicherin, N. I.

B+1

Design and calculation of servomechanisms (Proektirovaniye i raschet sledyashchikh sistem), Leningrad, Izd-vo "Sudostroyeniye", 1964, 606 p. illus., biblic.  
10,900 copies printed.

TOPIC TAGS: servomechanism, electronic amplifier, magnetic amplifier, semiconductor amplifier

PURPOSE AND COVERAGE: The book examines in detail the problems of designing and calculating ship servomechanisms with electronic, magnetic, and semiconductor amplifiers and the selection and calculation of correcting components. The methods of selecting the power of the executing motor and the experimentally determined transmission functions of individual links of the servomechanism are included. Detailed examples of calculating servomechanisms are also given. The book is intended for researchers and engineers and also for students of higher educational institutions.

TABLE OF CONTENTS [abridged]:

Card 1/2

L 23557-65

ACCESSION NR AM4045085

Foreword -- 3

Ch. I. Existing methods of calculating linearized servomechanisms and selection of the method of calculation -- 5

Ch. II. Selection of the basic elements of servomechanisms and determination of their parameters -- 28

Ch. III. Servomechanism amplifiers -- 108

Ch. IV. Selection and calculation of correcting components -- 394

Ch. V. Experimental determination of the parameters of the transmission functions of individual links of servomechanisms -- 503

Ch. VI. Examples of calculating servomechanisms -- 551

Appendix -- 594

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SUB CODE: EE

SUBMITTED: 25Jan64

NR REF SOV: 085

OTHER: 013

Card 2/2



SOV/137-58-8-16460

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 33 (USSR)

AUTHORS: Maslovskiy, P.M., Samokhvalov, G.V., Volkov, M.G.

TITLE: A Study of Thermal ~~Operation of Blast Heaters~~ Employed With Blast Furnaces (Izucheniye teplovoy raboty vozdukhonagrevatelye domennykh pechey)

PERIODICAL: Tr. Sibirsk. metallurg. in-ta, 1957, Nr 4, pp 23-44

ABSTRACT: The phenomena occurring in blast heaters (BH) may be described, after the introduction of several permissible simplifications, by a system of equations which include an equation for the temperature field of the BH during the process of heating and cooling off, as well as an equation of the thermal balance of the BH. An analysis of these equations with their appropriate boundary-value conditions makes it possible to derive a number of criteria essential for the evaluation of heat-exchange processes occurring in BH. Applied to the BH of the Kuznetsk Kombinat, processing of experimental data in terms of these criteria made it possible to derive certain relationships for the basic criteria. Derivation of formulae for thermodynamic analysis is possible only after more extensive experimental data have been accumulated. F.K.

Card 1/1

1. Blast furnaces--Equipment 2. Heaters--Thermodynamic properties

S/148/60/000/006/015/016/XX  
A161/A030

AUTHORS: Samokhvalov, G.V.; Nazarov, I.S.

TITLE: Heat Transfer Through Screens

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, 1960,  
No. 6, pp. 146 - 154

TEXT: The Siberian Metallurgical Institute has investigated the heat transfer through screens in three arrangements usual for metallurgical furnaces (Fig. 1). It is pointed out that heat transfer by contact was not taken into account in calculations (Refs. 1, 2, 3), whereas the heat quantity transferred by contact with moving medium or at a small distance between the surfaces may be several times higher than transferred by radiation. The heat transfer is mathematically analyzed for the case of stationary medium into limited space and into unlimited space, with references to formulas evolved in the works of O.Ye. Vlasov (Ref. 4) and G.L. Polyak (Ref. 5) for grey bodies. The calculation is made by gradual approximation, and the calculations had been checked in experiments with installations (Figs. 2 and 3) presenting the simplified typical screen arrangements (Fig. 1). The heat source was an electric furnace with tubular heaters and screens of

Card 1/5

Heat Transfer Through Screens

S/148/60/000/006/015/016/XX  
A161/A030

different diameters (from stainless steel and from oxidized sheet aluminum). The difference between the calculated and the measured temperatures was not great. Conclusions: 1) Heat transferred through contact must be taken into account in calculations of heat transfer through screens. The effect of contact heat transfer is higher, the nearer the screen is to the surface of the heat source or of the heat receiver. 2) The heat streams can be made stronger or weaker and the screen temperature can be changed by changing the screen position in relation to the heat source. 3) If the screens are used for heat transfer reduction, more screens and wider spaces between screens must be used. 4) The screening effect rises with a rise in temperature of the heat source. There are 5 figures and 8 Soviet references.

ASSOCIATION: Sibirskiy metallurgicheskii institut (Siberian Metallurgical Institute)

SUBMITTED: January 13, 1960

Card 2/5

SAMOKHVALOV, G.V.; NAZAROV, I.S.

Shield protection of slide tubes. Izv.vys.ucheb.zav.; chern.met.  
no.4:145-149 '61. (MIRA 14:4)

1. Sibirskiy metallurgicheskiy institut.  
(Furnaces, Heating---Equipment and supplies) (Insulation (Heat))

SAMOKHVALOV, G.V.

Determining conditions for the maximum performance of batch  
furnaces. Izv. vys. ucheb. zav.; chern. met. 4 no.10:120-125  
'61. (MIRA 14:11)

1. Sibirskiy metallurgicheskiy institut.  
(Furnaces, Heating) (Heat--Transmission)

USSR/Cultivated Plants. Potatoes. Vegetables. Melons.

M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20303.

Author : I.K. Samokhvalov.

Inst : Not given.

Title : The Development of Early and Late Ripening Plants and the Causes of Their Diverse Productivities. (@ razvitii rannei i pozdnespelykh rasteniy i prichinakh ikh raznoy urozhaynosti).

Orig Pub: Uch. zap. Khar'kovsk. un-t, 1956, 72, 67-74.

Abstract: The tests were conducted on leached black earth with two potato varieties, the late-ripening and high-yielding (Vol'tman - I) and the early ripening and less fecund (Kul'er - II). Under the same conditions, the cultivation of plant I developed normally, the plants of this second group, having a great amount of shoot foliation

Card : 1/2

USSR/Cultivated Plants. Potatoes. Vegetables. Melons.

M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20303.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001446930004-

at the beginning of intensive tuber growth, became quite darkened and began to lie flat, which reduced the tuber yield and the starch content in them. The side dressing of nitrogen to group II proved especially negative. The supplemental feeding of phosphorus increased the tuber yield and quality in both varieties, since the highest increase in starch content was gotten from II. Group II contained more chlorophyll in its leaves, had a greater amount of shoot foliation and high degree of fertility.

Card : 2/2

| 1ST AND 2ND ORDERS                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  | 3RD AND 4TH ORDERS                         |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--------------------------------------------|--|--|--|--|--|--|--|--|--|
| PROCESSES AND PROPERTIES INDEX                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                                            |  |  |  |  |  |  |  |  |  |
| <div> <div>CA</div> <div>SAMOKHVALOV, I.P.</div> </div>                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  | <div> <div>1</div> </div>                  |  |  |  |  |  |  |  |  |  |
| <p>Cadmium storage-battery electrode. V. S. Iylov and I. P. Samokhvalov, <i>Russ.</i> 53,523, Feb. 24, 1930. An oxide or hydroxide that is not reduced to metal in aq. alkali is used as an activating admixt. with Cd hydroxide or oxide or powdered Cd.</p> |  |  |  |  |  |  |  |  |  |                                            |  |  |  |  |  |  |  |  |  |
| <div> <div>ASH-SLA</div> <div>METALLURGICAL LITERATURE CLASSIFICATION</div> </div>                                                                                                                                                                            |  |  |  |  |  |  |  |  |  | <div> <div>2ND AND 4TH ORDERS</div> </div> |  |  |  |  |  |  |  |  |  |
| <div> <div>1ST AND 2ND ORDERS</div> </div>                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  | <div> <div>3RD AND 4TH ORDERS</div> </div> |  |  |  |  |  |  |  |  |  |

SAMOKHVALOV, I.P.

Increasing the capacity and life of the cadmium-iron electrode of an alkaline battery. Patent U.S.S.R. 78,070, Dec. 31, 1949.  
(CA 47 no.19:9827 '53)



AMCKHVALON, I.P.

تاریخ: ۱۳۹۷/۰۵/۰۵

- Increasing the efficiency of the system.

Makivarakava 11550

1945-1946

S/732/60/012/000/003/004  
D207/D307

3,2410

AUTHOR:

Samokhvalov, I.V.

TITLE:

Recording of cosmic-ray intensity variations at  
Mirnyy

SOURCE:

Sovetskaya antarkticheskaya ekspeditsiya. Trudy.  
t. 12: pervaya i vtoraya kontinental'nyye ekspedit-  
sii, 1955-1958 gg.; materialy nablyudeniya. Lenin-  
grad., Izd-vo 'Morskoy transport,' 1960, 478-480

TEXT:

Recording of variations of the total cosmic-ray  
intensity at Mirnyy was begun in March 1957 using an automatic cosmic-  
ray station ACK-2 (ASK-2). This station consisted of a spherical  
ionization chamber filled with argon at 36 atm pressure and surround-  
ed by a screen equivalent to 12 cm of lead. The variations were  
found by compensating the average ionization current and recording  
the deviations from the average (measured by means of Lindemann elec-  
trometer) on a moving film. The station was in a special hut where  
temperature was kept constant between 17 and 22°C. The apparatus

Card 1/2

Recording of cosmic-ray intensity ...

S/732/60/012/000/003/004  
D207/D307

worked very satisfactorily and measurements were obtained continuously for 99.7% of the total time. A preliminary analysis of the results was carried out at Mirnyy. When the Second Continental Expedition returned to the Soviet Union the results were corrected for the barometric and temperature effects. The technique for such corrections is described. The final 2-hour average values of the intensity, with and without corrections for meteorological effects, are tabulated for the period March-December 1957. The results were analyzed and prepared for publication at the Nauchno-issledovatel'skiy institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln (Scientific Research Institute of Terrestrial Magnetism, Ionosphere and Radiowave Propagation) by Senior Technicians A.I. Yuhmankova and M.A. Kulyukhina under the direction of Senior Scientific Officer Ye.S. Glokova. There are 2 tables. [Abstracter's note: Two numbered tables, 1-2 are referred to in the text but are not attached. This affects the page numbers of the article]

Card 2/2

S/169/61/000/009/037/056  
D228/D304

**AUTHOR:** Samokhvalov, I. V.

**TITLE:** Recording variations in the intensity of cosmic rays  
at Mirnyy

**PERIODICAL:** Referativnyy zhurnal. Geofizika, no. 9, 1961, 6,  
abstract 9G37 (V sb. Sov. antarkt. ekspeditsiya 12,  
L., Morsk. transport, 1960, 478-500)

**TEXT:** Tables are given for the two-hourly values of the intensity of  
cosmic rays during March - December, 1957, together with concise infor-  
mation on the equipment's operation and explanations to the tables.

[ Abstracter's note: Complete translation. ]

Card 1/1

GLUSHKOV, V.M., otv. red.; KUKHTENKO, A.I., zam. otv. red.;  
BLAGOVESHCHANSKIY, Yu.V., red.; DORODNITSYN, A.A., red.;  
YERSHOV, A.P., red.; LYAPUNOV, A.A., red.; MOSKALEV,  
I.S., red.; PUKHOV, G.Ye., red.; ROSTUNOV, T.I., red.;  
SAMOKHVALOV, K.G., red.; STOJNIY, A.A., red.; TIMOFEYEV,  
B.B., red.; SHCHERBAN', A.N., red.; LETICHEVSKIY, A.A.,  
red.; KAPITONOVA, Yu.V., red.; MEL'NIK, T.S., red.

[Problems of theoretical cybernetics] Voprosy teoretiche-  
skoi kibernetiki. Kiev, Naukova dumka, 1965. 209 p.  
(MIRA 18:9)

1. Akademiya nauk URSR, Kiev.

SAMOKHVALOV, K.K., inzh.

Investigating the freezing of water-filtrating rocks by means of model testing. Shakht. stroi. 4 no. 5:15-17 My '60. (MIRA 14:4)

1. Leningradskiy gornyy institut.  
(Mine water)

SAMOKHVALOV, E.K., kand. tekhn. nauk

Reply concerning a formula. Sbakht. stroi. 8 no.7:30 JI '64.  
(MIRA 17:10)

1. Leningradskiy gosnyy institut.

SAMOKHVALOV, K.K., kand. tekhn. nauk.

Investigating the sand freezing process with a filtrating flow  
by means of models. Shakht. stroi. 8 no.10:9-12 0 '64.  
(MIRA 17:12)

1. Leningradskiy gornyy institut.



BYUS, I.Ye.; SAMOKHVALOV, K.V.; SARKISOV, Yu.S.

"A bridge under the embankment." Avt.dor. 25 no.3:13-14 Mr  
'62. (MIRA 15:3)

(Bridges, Concrete)

SAMOKHVALOV, K.V.

Abutments with lower transverse cantilevers. Truly  
GPI [Gruz.] no.5:97-101 '61. (MIRA 15:12)  
(Bridges—Foundations and piers)

SAMOKHVALOV, L.A.

~~Air~~ distribution system of the Segner's wheel type. Gidroliz. 1  
lesokhim. prom. 11 no.3:6-8 '58. (MIRA 11:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i  
sul'fitno-spirovoy promyshlennosti.  
(Yeast) (Mixing machinery)

SHUL'MAN, M.S.; SAMOKHVALOV, L.A.

Polarographic analysis in the hydrolysis and sulfite alcohol industries.  
Gidroliz. i lesokhim.prom. 11 no.8:17-19 ' 58. (MIRA 11:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut spirtovoy promysh-  
lennosti (for Shul'man). 2. Vsesoyuznyy nauchno-issledovatel'skiy  
institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti (for  
Samokhvalov).  
(Polarography) (Yeast) (Chemistry, Analytical)

SAMOKHVALOV, L.A.; SHUL'MAN, M.S.

Polarographic analysis in hydrolysis and sulfite alcohol  
production processes. Report No.2: Investigating the  
process of solution of oxygen during the cultivation of yeasts.  
Gidroliz.i lesokhim.prom. 13 no.4:4-7 '60. (MIRA 13:7)  
(Kansk--Yeast) (Oxygen--Analysis)

SAMOKHVALOV, L.A.; SHUL'MIN, M.S.

Polarographic oxygen assay in the culture fluid of micro-organisms. Mikrobiologiya 32 no.5:896-901 S-0'63  
(MIRA 17:2)

1. Institut epidemiologii i mikrobiologii imeni N.F.Gamalei  
AMN SSSR.

SAMOKHVALOV, L.A.; CHURIKOVA, L.V.; SMOTENSKAYA, N.M.

Polarographic determination of dissolved oxygen and the intensity of respiration in micro-organisms by means of a rotating platinum electrode. Lab. delo no. 8:494-496 '64. (MIRA 17:12)

1. Institut epidemiologii i mikrobiologii im. N.F.Gamalei AMN SSSR, Moskovskiy zavod meditsinskikh preparatov No. 2 i Moskovskiy khimiko-farmatsevticheskiy zavod im. Karpova.

SOV/137-58-9-19601

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 210 (USSR)

AUTHORS: Golubev, A.I., Makarov, N.A., ~~Samokhvalov~~, L.N.

TITLE: The Building Up of Oxide Films Obtained by the Anodic Oxidation of Aluminum and its Alloys (Napolneniye okisnykh plenok, poluchayemykh anodnym oksidirovaniyem alyuminiya i yego splavov)

PERIODICAL: V sb.: Korroziya i zashchita metallov. Moscow, Oborongiz, 1957, pp 354-367

ABSTRACT: The causes of the appearance of "white spots", which form upon the building up of an anode oxide film (F) in tap water at 90-95° were investigated. It is assumed that the process of building up of F in water acidulated with H<sub>2</sub>SO<sub>4</sub> should be regarded as the chemical reaction of the solution with the oxide F. The "whiteness" (W) may appear as a result of insufficient time for building up the F or as a result of its treatment in water at low pH (2.8-3.9). In the latter case, probably, the oxide F reacts not only with water but also with the SO<sub>4</sub><sup>2-</sup> forming on the walls of the pores of the Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> and other S-containing compounds which contribute to a stronger

Card 1/2



SOV/137-58-9-19601

The Building Up of Oxide Films (cont.)

adsorption of water or lacquer solvent during the building up and subsequent coloring. This causes the appearance of W. The local distribution of W might be the result of an unevenness in the thickness and porosity of F. W does not appear upon the building up in water at pH 4. W appearing earlier disappears upon the second building up at pH 4.5. A new method for colorless building up anode F on plated material in a solution containing 10 g/l  $\text{NH}_4\text{NO}_3$  and 0.05 g/l  $(\text{NH}_4)_2\text{HPO}_4$  was developed.

V.G.

1. Aluminum--Oxidation
2. Oxide films--Development
3. Electrolytes--Properties
4. Sulfuric acid--Applications
5. Water--Performance

Card 2/2

SAMOKHVALOV, M. A.

9  
Polyene compounds. X. Direction and stereochemical  
of dehydration of esters of 3,7-dimethyl-6-octen-

3.

ol-1-oate with PBr<sub>2</sub>-pyridine as above gave 77% of 6,9-  
dimethyl-3,4,8-decatrien-1-oate, b<sub>p</sub> 100-11° λ 276 mμ,  
reacting with 10% alk KOH the free acid is yellow oil.

SAMOKHVALOV, M.A.

The 1540, 1550, 1563, and 1580L-type double-sided vertical boring  
and turning lathes. Biul. tekhn. ekon. inform. no.9:33-35 '59.  
(MIRA 13:3)

(Lathes)

SAMOKHVALOV, M.A.

The KU-160-type universal horizontal-boring machine. Biul. tekhn.-ekon.  
inform. no.10:24-26 '59. (MIRA 13:3)  
(Drilling and boring machinery)

SAMOKHVALOV, M.A.

The 1594-type universal double-sided boring and turning lathe. Biul.  
tekh.-ekon.inform. no.11:21-23 '59. (MIRA 13:4)  
(Lathes)

SAMOKHVALOV, M.A.

The 549 machine tool for cutting globoidal worm pairs. Biul.tekh.-  
ekon.inform. no.9:35-37 '61. (MIRA 14:9)  
(Gear-cutting machines)

S/193/61/000/011/005/007  
A004/A101

AUTHOR: Samokhvalov, M. A.

TITLE: Hydraulic presses of the Kolomna Plant

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 11, 1961, 30-33

TEXT: The Kolomenskiy zavod tyazhelogo stankostroyeniya (Kolomna Heavy Machinery Plant) has developed and built more than 50 press models of up to 16,000 tons capacity. The hydraulic П960 (P960), P961, P089 and P965 presses have been developed for the Chelyabinskiy trubnyy zavod (Chelyabinsk Tube Plant) for the production of gas and oil pipes 426 to 1,020 mm in diameter. The preliminary shaping of the pipes from sheet material is carried out on the model P960 press, while final shaping is effected on the 16,000-ton capacity model P961. The models P089 and P965 are used for the calibrating of the welded tubes. The presses are installed in the production line of the electric tube welding shop and made it possible to increase the output by 220% and cut the cost price for 1 ton of tube by 45 - 50 rubles. In 1960 the Plant brought out a new range of special presses for the hydraulic testing of steel tubes 5 - 245 mm in diameter by internal pressure. The tubes are tested at pressures from 70 to 400 kg/cm<sup>2</sup>

Card 1/2



Hydraulic presses of the Kolomna Plant.

S/193/61/000/011/005/007  
A004/A101

with an aqueous emulsion from an individual hydraulic drive. The testing cycle is semi-automatic, all auxiliary operations are mechanized. In contrast to the existing designs, the press steadies are driven by a common shaft which ensures their synchronized operation. The steadies are either of the single-position or double-position type. The author presents tables showing the main parameters of the above press series. The plant produces also tube-profiling and bar-profiling presses of 1,600 to 3,150 tons capacity, intended for the pressing of tubes, hollow shapes, bar material and sections by extrusion. These presses are of a four-column design with dual stroke of the main plunger and are manufactured in three types: for aluminum and Al-alloys, copper and Cu-alloys, and for steel, titanium and their alloys. The operation speed of the two former types is controlled automatically. The author reports on the unique single-action П236 (P236) and dual-action П233 (P233) press models intended for the hot extruding of parts, on the models П973 (P973) and ПA973 (PA973) of 315 and 350 tons capacity for the local straightening of ribbed panels and the П061A (P061A) press model for the internal hydraulic testing of cast iron tubes. There are 1 figure and 2 tables.

Card 2/2

SAMOKHVALOV, M.A.

The 5A370 horizontal gear-milling machine. Biul.tekh.-ekon.inform.  
no.11:36-37 '61. (MIRA 14:12)

(Gear-cutting machines)

ALEKSANDROV, N.I.; GEFEN, N.Ye.; GAPOCHKO, K.G.; GARIN, N.S.; GORDON, G.Ya.  
KOZHUSHKO, M.I.; KORENEV, G.P.; LAZAREVA, Ye.S.; LEYKEKHMAN, Ye.P.;  
MASLOV, A.I.; PAVLOV, G.A.; POLIVANOV, N.D.; ROMANOV, P.S.; RYBAKOV,  
P.S.; RYBAKOV, M.G.; SAMOKHVALOV, M.F.; SMIRNOV, M.S.; SHTERN, M.A.;  
CHEPKOV, V.N.

Experience with mass aerosol immunization with tularemia dust  
vaccine. Zhur. mikrobiol., epid. i imm. 41 no. 2:36-43 F '64.  
(MIRA 17:9)

ARTYUKHOVA, O.A.; VAKSENBURG, V.Ya.; PETROV, L.A.; SALTYSKOVA, Ye.S.;  
SAMOKHVALOV, M.M.

New types of germanium p-n-p junction triodes. Poluprov. prib. 1  
ikh prim. no.2:46-77 '57. (MIRA 11:6)  
(Transistors)

*SAMOKHVALOV, M. M.*

9(4)<sup>P.3</sup>

PHASE I BOOK EXPLOITATION

SOV/1889

RSFSR. Moskovskiy ekonomicheskoy administrativnyy rayon. Sovet narodnogo khozyaystva

Poluprovodnikovyye diody i triody i ikh primeneniye; sbornik statey. (Semiconductor Diodes and Triodes and Their Uses; Collection of Articles) Moscow, Tsentr. byuro tekhn. inform., 1958. 102 p. (Series: Dostizheniya nauki i tekhniki) 1,700 copies printed.

Consulting Engineer: Ye.Z. Korobeynikova; Ed.: G.P. Gaus.

PURPOSE: This book may be useful to engineers in the field of semiconductor electronics.

COVERAGE: The articles in this collection discuss problems in the design, manufacture, and application of new types of semiconductor devices. The double-base diode is described and results of the calculation of its characteristics are given. Fused-junction silicon and germanium triodes are discussed

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Semiconductor Diodes and Triodes (Cont.)

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and the characteristics of the type 314 fused-junction triode are presented. The effect of feedback in transistor amplifiers on nonlinear distortions is covered. Operation of low-frequency transistor amplifiers for individual units of multichannel communication systems is explained and a discussion of transistor units of the KPP 30/60 system is presented. Attention is given to the problems of cooling transistor devices. There is a review of Soviet and Western magazines and patents for 1956-1957 concerned with semiconductor devices and their applications. There are no references.

TABLE OF CONTENTS:

Press, F.P. Fused-Junction Silicon n-p-n- Triodes 4  
The author discusses properties of silicon and describes the advantages of silicon triodes over germanium triodes. He also describes the construction and characteristics of fused-junction silicon n-p-n triodes.

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Semiconductor Diodes and Triodes (Cont.)

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Samokhvalov, M.M. Type 314 Germanium High-frequency Triodes 12

The author discusses the construction and applications of type 314 germanium triodes. He also explains the equivalent circuit of a fused-junction transistor and discusses limiting operating conditions of type 314 triodes.

Dobkin, A.S. Double-base Germanium Diode 25

The author discusses basic parameters and principles of operation of double-base diodes. He also explains the construction and characteristics of diodes and gives examples of their application.

Borisov, A.I. Nonlinear Distortions in Feedback Transistor Amplifiers 37

The author discusses nonlinear distortions in transistor amplifiers with and without feedback and describes methods of using feedback to decrease the distortions. He also derives expressions for calculating performance of transistor

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amplifiers with various types of feedback.

Muradyan, A.G., and G.M. Mikirtichan. Transistor Amplifiers  
for Individual Units of Multichannel Communication Systems 61

The authors discuss the operation and characteristics  
of a low-frequency transistor amplifier used in a  
standard twelve-channel high-frequency system and derive  
formulas for calculating amplifier performance. A  
discussion of a transistor audio amplifier and a control-  
signal receiver is also presented.

Zaryanov, N.V. Cooling of Semiconductor Devices 74  
The author describes a transistor chassis absorbing  
heat from transistor circuits and derives expressions  
that may be used in the design of transistor cooling  
elements.

Fridolin, G.G. Review of Certificates of Inventorship,  
Foreign Journals, and Patents for 1956 and 1957 Concerned With  
Semiconductor Devices and Their Applications 81

I. Transistor generators of sinusoidal oscillations 81  
II. Flip-flop circuits and pulse generators 97

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The author reviews Soviet and Western patents and magazines concerned with transistor circuits. He discusses the operation of various transistor oscillators, frequency dividers, modulators, and multivibrators.

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7-23-59

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SAMOKHVALOV, M.M.; SPIRIDONOV, N.S.

Frequency properties of semiconductor triodes manufactured by  
the diffusion-welding method. Poluprov.prib. 1 ikh prim. no.3:  
47-74 '58. (MIRA 12:4)

(Transistors)

SAMOKHVALOV, M.M

PHASE I BOOK EXPLANATION NOV/67

[illegible]

**PURPOSE:** This collection of articles is intended for specialists working in the field of semiconductor devices.

**CONTENTS:** The articles discuss basic transistor parameters, methods of measuring them, and some problems in the use of transistor circuit models. Two of the articles describe the use of semiconductor diodes for parametric amplification. No photocopies are included. References accompany 11 of the 12 articles.

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| 62.  | <u>Vanambem, V. D., and K. S. Chidambary.</u> Temperature Dependence of Self-Frequency Parameters in Self-Transistors                                    |
| 63.  | <u>Wagshofer, J. A. (German).</u> Calculation of Maximum Permissible Pulse Power for Semiconductor Devices in Their Work Under Pulse Overload Conditions |
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AUTHORS:

Samokhvalov, M.M. and Tikhodeyev, Yu.S.

TITLE:

Temperature dependence of some of the frequency dependent parameters of drift transistors

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1961, 23, abstract 6 D141 (V sb. Poluprovodnik. pribory i ikh primeneniye, no. 5, M., Sov. radio, 83-92)

TEXT: Results are given and discussed of an experimental investigation into the temperature dependence, in the interval from  $-180$  to  $+70^{\circ}\text{C}$ , of frequency dependent parameters of drift junction transistors such as  $f_{\alpha}$ ,  $r_{\beta}$ ,  $c_k$  and  $f_{\max}$ . [Abstracter's note:  $r_{\beta}'C_k$  is given in the abstract]. The evaluation of this dependence is given and this is in good agreement with experimental results. It is shown that using the temperature dependence of junction transistors with diffused base and taking into account the dependence of  $\sqrt{B}$

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